(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(54) Title: HIGH OCCUPANCY VEHICLE RESTRICTION AWARE NAVIGATION SYSTEM
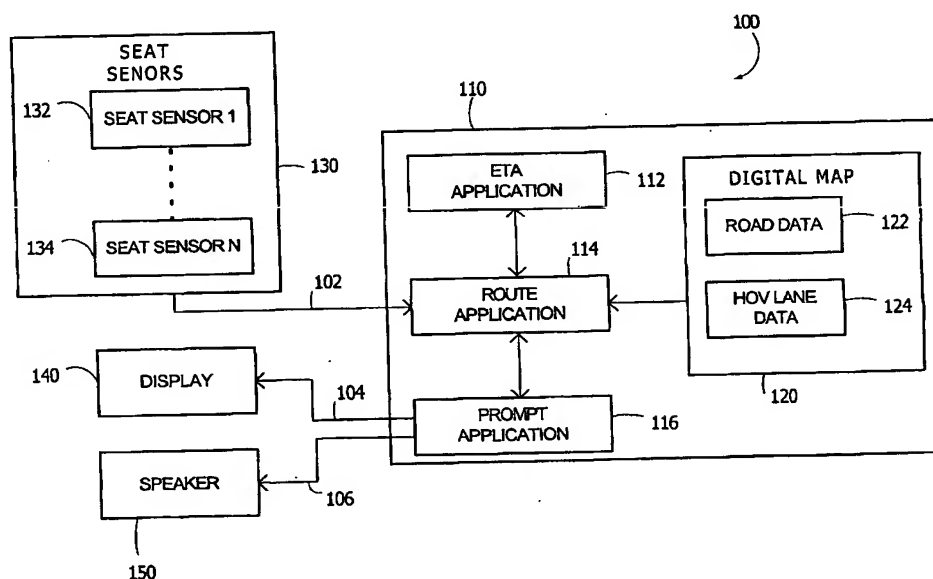
(57) Abstract: A vehicle navigation system (100) is provided for storing high occupancy vehicle restriction values for sections of road. The system may include seat occupancy sensors (130) that indicate whether seats in the vehicle are occupied. The system may also include a processor (110) that determines the number of occupants in the vehicle based on signals from the seat occupancy sensors (130) or input from a user. The processor (110) may determine whether the vehicle is authorized to traverse a section of road based on a high occupancy vehicle restriction value for the section of road and the number of occupants in the vehicle. The system may also include a display (140) and/or a speaker (150) so that the processor may communicate to a user whether the vehicle is authorized to travel on the section of the road.